

Product Datasheet

GP2129 - Chitosan (3000 - 6500 cps);

very high molecular weight

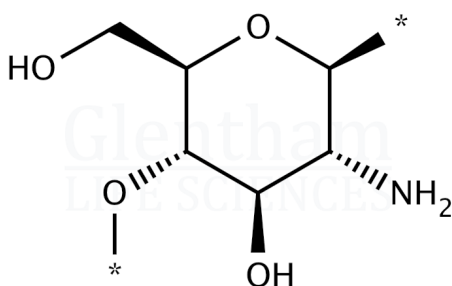
Product Details

Product Name	Chitosan (3000 - 6500 cps); very high molecular weight
Glenthams Code	GP2129
CAS Number	9012-76-4
EINECS	618-480-0
MDL Number	MFCD00161512
Related Categories	APIs, Carbohydrates, Biochemicals, Natural Products, Polysaccharides, Oligosaccharides, Chitin & Chitosan, Cosmetic Raw Materials

Structure

Molecular Weight : 2,100,000 (avg.)

Molecular Formula : $[C_6H_{11}NO_4]_n$



Storage

Recommended storage temperature: +20°C.

Hazards and Transport

Not classified as hazardous under CLP.

Not classified as dangerous for transport.

Glenthams Product Specification

Physical Description	: White to light-tan powder
Degree of Deacetylation	: $\geq 90.0\%$
Ash	: $\leq 1.0\%$
Viscosity	: 3000 - 6500 cps (1% in 1% acetic acid, 20°C)
Water	: $\leq 8.0\%$
Solubility (in acetic acid)	: $\geq 99\%$
pH	: 6.0 - 8.0 (1%, 20°C)
Arsenic (As)	: $\leq 1\text{mg/kg}$
Lead (Pb)	: $\leq 0.5\text{mg/kg}$
Mercury (Hg)	: $\leq 0.1\text{mg/kg}$
Cadmium (Cd)	: $\leq 1\text{mg/kg}$
Particle Size	: ≤ 100 mesh
Microbiological Counts	: E. coli, S. Aureus, Coliforms: $\leq 3\text{MPN/g}$ (each)
	: Salmonella spp.: Not detected in 25g
	: Yeast and Moulds: $\leq 100\text{CFU/g}$
	: Total Plate Count: $\leq 1000\text{CFU/g}$
Version	: v1.1

About Chitosan (3000 - 6500 cps); very high molecular weight

Chitosan is a polysaccharide comprised of linked D-glucosamine and N-acetyl-D-glucosamine units. It is produced by the deacetylation of chitin, a naturally occurring polysaccharide. Chitosan is commercially used in agriculture as a biopesticide but has potential applications in the biomedical field due to its antibacterial properties. This product is derived from shrimp shell.

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